

CLAIMS:

1. A method for treating cancer, comprising determining a therapeutically effective dosage amount of arsenic trioxide based upon the weight of a patient diagnosed with said cancer, and administering said therapeutically effective dosage amount to said patient.

2. The method of Claim 1, wherein said cancer is a hematological cancer.

3. The method of Claim 1, wherein said cancer is a leukemia.

4. A method for determining a dose of arsenic trioxide to treat cancer, comprising determining the weight of a patient diagnosed with cancer and determining a therapeutically effective dosage amount of said arsenic trioxide based upon the weight of said patient.

5. The method of claim 4, wherein said cancer is a hematological cancer.

6. The method of claim 4, wherein said cancer is a leukemia.

7. A kit comprising arsenic trioxide and instructions for treating a patient diagnosed with cancer comprising determining a therapeutically effective dosage amount of said arsenic trioxide based upon the weight of said patient.

8. The kit of claim 7, wherein said instructions further define the cancer as a hematological cancer.

9. The kit of claim 7, wherein said instructions further define the cancer as a leukemia.